

IN THE CLAIMS:

Claim 1 (Currently Amended): An information recording apparatus that comprises:
an information attaching and generating device, which attaches [[a]] track number information to each track recorded in an information recording medium and generates group control information to control one or a plurality of tracks as one group; and [[,]] ~~said information recording apparatus comprising~~[[:]]

a detection device for giving a grouping instruction to said information attaching and generating device when ~~any kind of a~~ a change in ~~regarding~~ track recording is detected,

wherein said information attaching and generating device generates the group control information by making the tracks from the track where recording to said information recording medium is started to at least the track already recorded at the point when said grouping instruction is received be the same group.

Claim 2 (Original): The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when an instruction to end the track recording in said information recording medium is detected, and

said information attaching and generating device generates the group control information by making the tracks from the track where recording to said information recording medium is started to the track being recorded at the point where said grouping instruction is received be the same group.

Claim 3 (Original): The information recording apparatus according to Claim 2, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

Claim 4 (Original): The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when an instruction to pause the track recording to said information recording medium is detected, and

said information attaching and generating device generates the group control information by making the tracks from the track where recording to said information recording medium is started to the track being recorded at the point when said grouping instruction is received be the same group.

Claim 5 (Original): The information recording apparatus according to Claim 4, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

Claim 6 (Original): The information recording apparatus according to Claim 4, wherein said detection device gives the grouping start instruction to said information attaching and generating device when an instruction to release said pause of the track recording to said information recording medium is detected, and

said information attaching and generating device generates the group control information by making the track recorded at the point when said grouping start instruction is received and subsequent tracks be a new group.

Claim 7 (Original): The information recording apparatus according to Claim 5, wherein said detection device gives the grouping start instruction to said information attaching and generating device when an instruction to release said pause of the track recording to said information recording medium is detected, and

said information attaching and generating device generates the group control information by making the track recorded at the point when said grouping start instruction is received and subsequent tracks be a new group.

Claim 8 (Original): The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when the instruction to change a track recording method to said information recording medium is detected.

Claim 9 (Original): The information recording device according to Claim 8, wherein said information attaching and generating device generates the group control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

Claim 10 (Original): The information recording apparatus according to Claim 9, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

Claim 11 (Original): The information recording device according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when a change of an operation state of a device in a recording source is detected.

Claim 12 (Original): The information recording device according to Claim 10, wherein said information attaching and generating device generates the group control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

Claim 13 (Original): The information recording apparatus according to Claim 12, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

Claim 14 (Original): The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when the a change of a recording mode in said information recording medium is detected.

Claim 15 (Original): The information recording apparatus according to Claim 14, wherein said information attaching and generating device generates the group control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

Claim 16 (Original): The information recording apparatus according to Claim 15, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

Claim 17 (Original): The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when the change of a recording source is detected.

Claim 18 (Original): The information recording apparatus according to Claim 17, wherein said information attaching and generating device generates the group control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

Claim 19 (Original): The information recording apparatus according to Claim 18, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

Claim 20 (Original): The information recording apparatus according to Claim 19, wherein said information attaching and generating device attaches the track number information in such a manner that said track number information attached to the tracks from the track where said recording is started to the track already recorded at the point when said grouping instruction is received and said track number information attached to the track recorded after said grouping instruction is received are discriminated.

Claim 21 (Original): The information recording apparatus according to Claim 1, further comprising:

a registration device for registering a group information in accordance with content of a change detected by said detection device, wherein said information attaching and generating device further attaches the group information in accordance with the content of said detected change to the track that belongs to said same group.

Claim 22 (Original): The information recording apparatus according to Claim 1, further comprising:

a registration device for reading out information from a recorded track regarding the track and registering the information as a group information, wherein said information attaching and generating device further attaches said group information regarding the track that belongs to said same group to the track that belongs to said same group.

Claim 23 (Currently Amended): The information recording apparatus according to Claim 22, wherein said registration device ~~performs registration~~ registers said read-out information as the group information after changing a part of the group information when ~~it is concluded~~ said registration device determines that the same information same as the information regarding said read-out track said read-out information is already registered.

Claim 24 (Original): The information recording apparatus according to Claim 23, wherein said registration device performs registration by adding a change that a sub-number is given to the group information.